

### Abstract

A gain control method and a gain control device for comparing output power ( $W_o$ ) of a variable gain amplifier (4) with target power ( $W_d$ ) and controlling the gain of the variable gain amplifier (4) in accordance with a comparison result, characterized in that plural gain control cycles are executed while changing a control gain difference determined as the difference between a gain which has been already set in the variable gain amplifier (4) and a gain which is newly set. According to the present invention, there can be implemented the gain control device and the gain control method for controlling the gain of the amplifier at high speed, and a receiver (1) and a cellular phone which are provided with the gain control device (4).